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Lancaster County and City of Lincoln GIS Master Plan Executive Overview

June 24, 2004

8:30-10:30 AM

Presented by:

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Agenda

- **Introductions**
- **History, Background, and Project Approach**
- **Key Issues**
- **Master Plan Content**
- **Recommendations**
- **Implementation Strategy**
- **Estimated Start-up Costs**
- **Summary and Questions**

GIS Coordination History

- Long history of County and City coordination and successes
- Informal coordination group developed in late 1992
- An interlocal agreement (ILA) formalized the GIS Committee in 1999
- After 1999, additional parties were included
- Multiple participants have provided funding and cooperated to develop joint data and applications

GIS Admin Committee

- County Assessor
- County Engineer
- Public Works & Utilities
- City/County Planning
- Information Services Division
- Building and Safety
- Lower Platte South NRD
- Lincoln Electric System

Project Background

- **ESRI Visioning Session in 2003 resulted in Enterprise GIS recommendations:**
 - Prepare GIS Master Plan
 - Establish Formal County/City GIS Authority
 - Pursue Integrated Workflow Management
- **A follow up GIS Visioning Workshop was conducted in-house by the City of Lincoln and Lancaster County to present the Vision to a broader audience**

Goals of the Master Plan Development

- Provide an exemplary model of the Enterprise GIS
- State benefits of an Enterprise program, suggest a support organization and identify risk and mitigation factors
- Provide a concrete form and detailed action plan for moving from the current GIS state to a fully implemented Enterprise GIS solution

PlanGraphics Overview

- **GIS and Spatial IT Consulting Firm since 1979**
- **Over 1,500 client projects**
- **Core services include:**
 - **Assessment, Design, and Planning**
 - **Desktop/Workstation/Web Application Development**
 - **Database/Systems Integration**
 - **Customer Support/Training**



Project Work Plan

- Task 1: Project Initiation

- Task Activities:

- Pre-Kickoff Preparation
 - Kickoff Meeting
 - Departmental Interviews

- Task Deliverables:

- Questionnaires
 - Kickoff Meeting
 - Project Participant Work Session
 - Project Plan
 - Department/Agency Interviews

Project Work Plan

- Task 2: Review, Analysis, and Recommendations
 - Task Activities:
 - Review results of interviews and questionnaires
 - Analyze current Enterprise GIS development effort
 - Prepare technical memorandum
 - Develop draft master plan
 - Task Deliverables:
 - Technical Memorandum
 - Draft Master Plan

Project Work Plan

- Task Series 3: Master Plan Workshop
 - Task Activity and Deliverable:
 - On-site master plan development session
- Task Series 4: Final Report Development
 - Task Activity:
 - Finalize the GIS Master Plan based upon collective input in Task 3
 - Task Deliverable:
 - Enterprise GIS Master Plan Final Report

Project Work Plan

- Task 5: Final Workshop and Formal Presentations
 - Task Activities:
 - On-site presentation of the Final Report to the project team and City/County executives
 - Task Deliverables:
 - Final Workshop/Work Session
 - Presentation to Project Stakeholders
 - Presentation to City Council/County Commissioners

Key Issues Affecting Implementation

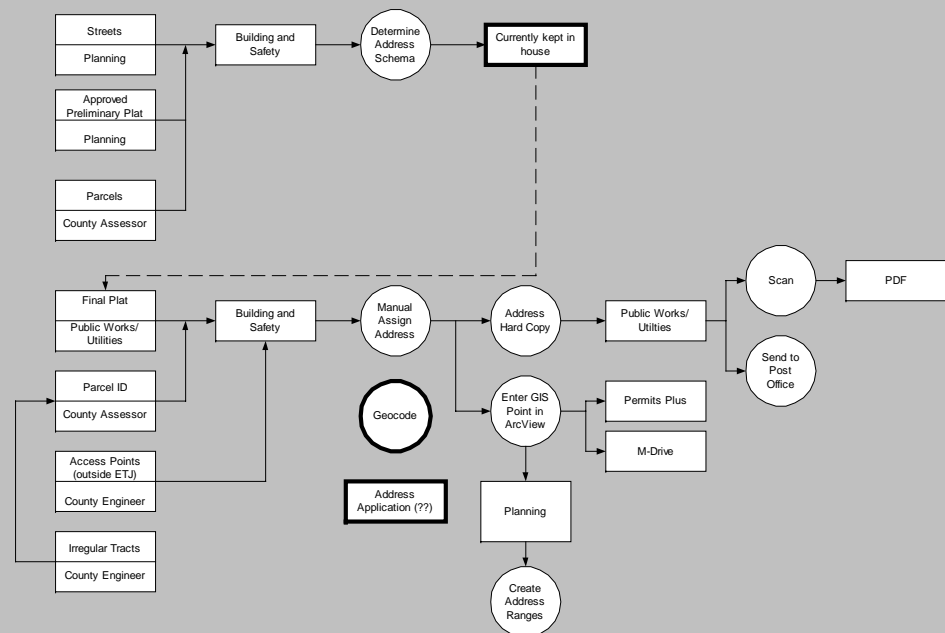
- Expanded collaboration among City, County, and external agencies and private sector
- Data reconciliation and integration
- Opportunities to create efficiencies that should result in time savings and cost avoidance
- Increasingly complex technology environment
- Rising public and agency expectations
- Data quality control and assurance
- Enhanced data security and accessibility
- Staff development

Summary of Master Plan Contents

- Business Requirements Analysis
- Current Systems Review
- GIS Workflow Reviews
- Implementation Strategy
- Data, Hardware, and Software Recommendations
- Organizational Structure Recommendations

Enterprise GIS Workflows

- Street Centerline Creation
- Plat Review
- Landbase Development
- Address Assignment



Immediate Recommendations

- **Execute Interlocal Agreement(s)**
- **Establish GIS Program Management Office**
- **Expand Core GIS Committee**
- **Create Unified Landbase**
- **Identify and Pursue Sources of Funding**

Recommended Three-Phase Implementation Strategy

- **Initiation Phase**
- **Implementation Phase**
- **Operations Phase**

Initiation Phase

- Interlocal Agreements are developed
- Identified staff is hired
- GIS Technical Work Teams are created
- Potential funding participants are identified
 - “Consortium” type – other governmental entities
 - Private entities
- Enterprise database design begins

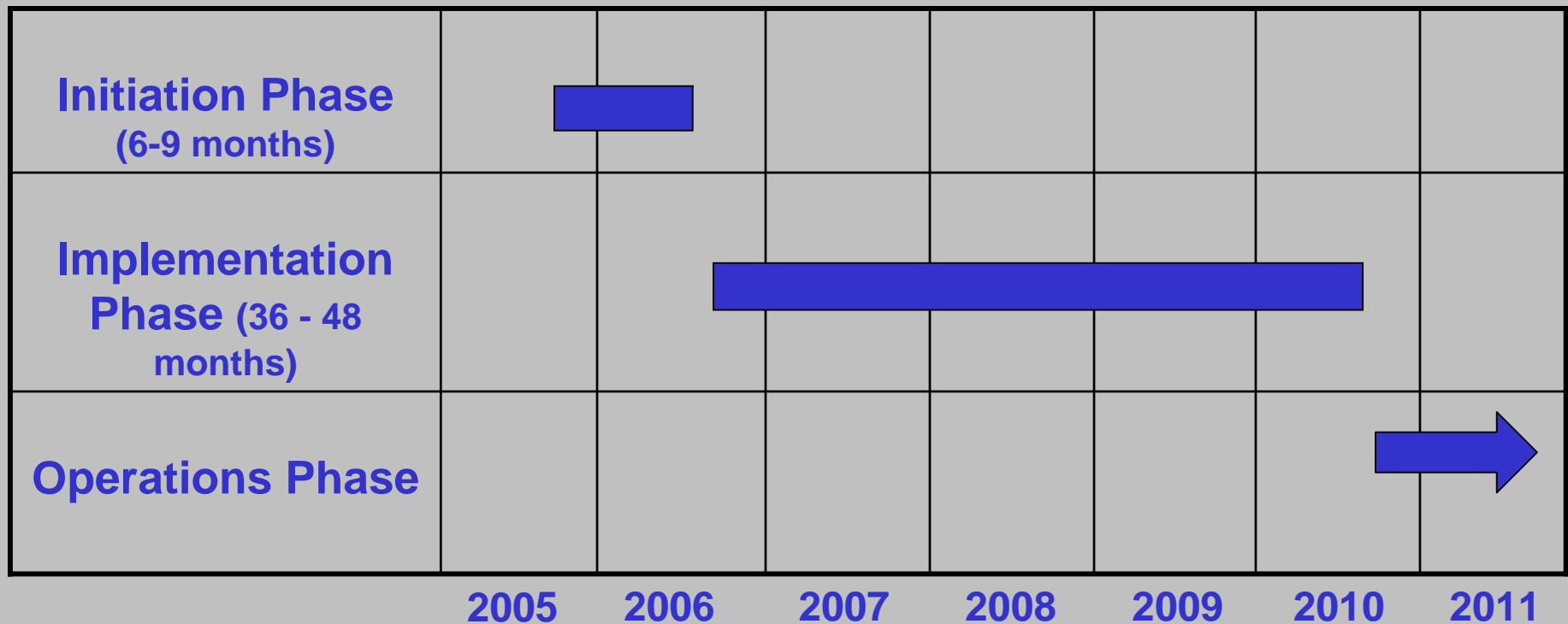
Implementation Phase

- Enterprise database development continues to be a primary effort
- Application development may fall into several broad categories
- Organizational readiness is enhanced
 - Training and staff development are key activities
- Expansion of some hardware and software may be necessary

Operations Phase

- Data is enhanced and maintained on an on-going basis
- Additional application development occurs
- Hardware, software, and network upgrades are made systematically

Initial Implementation Schedule



Estimated Start-up Costs

- **GIS Coordinator: 1 FTE at approximately \$75,000 plus fringe benefits (≈\$100K total)**
- **Miscellaneous Operating Expenses (≈\$10K)**
- **GIS Landbase Database Design: (≈\$60-80K)**
- **Office Space, Hardware, and Software (from existing departmental/agency resources)**
- **Management Oversight (by GIS Committee)**

Next Steps in the Project

- Provide Master Plan, Technical Memorandum, and presentation materials for wide review
- Develop forms for identifying data sources and data priorities
- Collect comments on Master Plan
- Incorporate comments and extend Master Plan
- Provide Master Plan to GIS Committee for final review
- Present Final GIS Master Plan to GIS Committee, Executives, and other stakeholders

Closing Summary and Questions



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